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THE CLAIMS

A complete listing of all of originally filed Claims 1 - 33 is provided below. A status

identifier is provided for each claim in a parenthetical expression following each claim

number.

1. (Previously Presented) A distributed firewall (DFW) for use on an end system,

comprising:

an end system authentication component for providing user authentication

for connection attempts from users attempting to access the end system via a network;

an end system access control component for providing purpose authorization

for authenticated users based on rules in a connection policy associating users with

purposes; and

an end system enforcement component for enforcing the connection policy

rule for one of the authenticated users from whom traffic is received at the end system; and

wherein the end system authentication component utilizes an aggregate of

the users in the connection policy to authenticate at least one of the users.

2. (Currently Amended) The DFW of claim 1, wherein the end system

authentication component utilizes Internet key exchange (IKE) protocol to authenticate users

in IKE main mode (MM) based on the aggregate of users in the connection policy.

3. (Currently Amended) The DFW of claim 2, wherein the end system

authentication component utilizes the rule in the connection policy associated with the

authenticated user in IKE quick mode (QM) to complete the authentication.

4. (Currently Amended) The DFW of claim 3, wherein the end system

authentication component transmits a secure notify message to the authenticated user when

the authenticated user sends traffic in QM that exceeds an authority governed by the rule in

the connection policy associated with the authenticated user.

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5. (Currently Amended) The DFW of claim 3, wherein the end system

enforcement component utilizes Internet protocol security (IPSec) protocol to maintain

security of communications from the authenticated user when the communications are

within the rule in the connection policy.

6. (Currently Amended) The DFW of claim 5, wherein the end system

enforcement component enables IPSec on a socket for communications from the

authenticated user and binds the socket in exclusive mode so that the context of the binder

of the socket is preserved.

7. (Currently Amended) The DFW of claim 1, further comprising an end system

inspection component for inspecting packets from an authenticated user.

8. (Original) The DFW of claim 1, wherein the connection policy is defined

in a pluggable policy component.

9. (Original) The DFW of claim 8, wherein the pluggable policy component

is downloaded from a centralized administrative policy.

10. (Original) The DFW of claim 8, wherein the pluggable policy component

is modifiable on the end system.

11. (Currently Amended) The DFW of claim 10, further comprising an end system

access control component through which the connection policy may be defined.

12. (Currently Amended) The DFW of claim 1, further comprising an end system

access control component having a user interface (UI) through which the connection policy

is defined.

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13. (Withdrawn) A method of providing user authentication/authorization in a

distributed firewall on an end system, comprising the steps of:

receiving a connection request from a user;

performing main mode (MM) authentication of the connection request via Internet

key exchange (IKE) protocol based on an aggregate of users listed in a connection policy;

receiving communications from the user;

performing quick mode (QM) authentication of the communications via IKE based on

a rule for the user in the connection policy;

completing the QM authentication when the communications are within a scope of

the rule for the user in the connection policy; and

enforcing the rule for the user for subsequent communication when the QM

completes.

14. (Withdrawn) The method of claim 13, wherein the step of performing MM

authentication comprises the steps of:

checking a certificate of the connection request against an aggregate listing of all

authorized users in the connection policy; and

completing MM authentication when the certificate matches an entry in the

aggregate listing.

15. (Withdrawn) The method of claim 13, further comprising the step of

transmitting a secure notify message to the user when the communications attempt to

exceed the rule for the user in the connection policy.

16. (Withdrawn) The method of claim 13, wherein the step of enforcing the rule

for the user for subsequent communication comprises the steps of enabling IPSec on a

socket for the communication, and forcing the socket to be bound in exclusive mode.

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17. (Withdrawn) The method of claim 13, wherein the end system has multiple

accounts thereon, wherein the step of receiving a connection request from a user includes

the step of receiving a connection request having an account ID hint included therewith, and

wherein the step of performing main mode (MM) authentication of the connection request

via Internet key exchange (IKE) protocol includes the step of performing MM authentication

of the connection request via IKE based on an aggregate of users listed in a connection

policy for one of the accounts identified by the account ID hint.

18. (Withdrawn) The method of claim 17, wherein the step of performing quick

mode (QM) authentication of the communications via IKE based on a rule for the user in the

connection policy comprises the step of performing QM authentication based on a rule for

the user in the connection policy for one of the accounts identified by the account ID hint.

19. (Withdrawn) The method of claim 13, further comprising the step of

downloading the connection policy from a central administration.

20. (Withdrawn) The method of claim 13, further comprising the steps of

displaying an access control user interface, receiving input from a user of the end system,

using the input to define the rules of the connection policy.

21. (Withdrawn) In a computer system having a graphical user interface including

a display and a user interface selection device, a method of displaying and selecting a

connection policy on the display comprises the steps of:

retrieving a set of applications processes to which access controls may be defined;

retrieving a listing of authorized users;

displaying the set of applications in association with users who are authorized to

access each application defined in the connection policy;

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receiving a user input signal indicating a desired modification to the displayed

associations and thereafter modifying the connection policy in accordance with the user

input; and

displaying the set of applications in association with a modified list of users who are

authorized to access each application defined in the modified connection policy.

22. (Withdrawn) The method of claim 21, wherein the step of receiving a user

input indicating a desired modification to the displayed associations comprises the step of

receiving a user input indicating a desired addition of a user for a selected application

process, further comprising the steps of displaying a list of all authorized users, receiving

an authorized user selection input to add a new authorized user association to the selected

application process.

23. (Withdrawn) The method of claim 21, wherein the step of receiving a user

input indicating a desired modification to the displayed associations comprises the step of

receiving a user input indicating a desired removal of a user for a selected application

process, further comprising the steps of displaying a list of all authorized users associated

with the selected application process, receiving an authorized user deletion input to remove

an authorized user association from the selected application process.

24. (Withdrawn) The method of claim 21, further comprising the steps of

selection of the user selectable indicator, and thereafter securing the computer system in

accordance with the connection policy.

25. (Withdrawn) The method of claim 24, further comprising the steps of

displaying a user selectable indicator indicating the that the computer system is secure,

receiving a user input selection of the user selectable indicator, and thereafter un-securing

the computer system.

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26. (Withdrawn) A computer-readable medium having computer-executable

instruction for performing the steps of receiving a connection request from a user,

performing main mode (MM) authentication of the connection request via Internet key

exchange (IKE) protocol based on an aggregate of users listed in a connection policy,

receiving communications from the user, performing quick mode (QM) authentication of the

communications via IKE based on a rule for the user in the connection policy, completing the

QM authentication when the communications are within a scope of the rule for the user in

the connection policy, and enforcing the rule for the user for subsequent communication

when the QM completes.

27. (Withdrawn) The method of claim 26, wherein the step of performing MM

authentication comprises the steps of checking a certificate of the connection request

against an aggregate listing of all authorized users in the connection policy, and completing

MM authentication when the certificate matches an entry in the aggregate listing.

28. (Withdrawn) The method of claim 26, further comprising the step of

transmitting a secure notify message to the user when the communications attempt to

exceed the rule for the user in the connection policy.

29. (Withdrawn) The method of claim 26, wherein the step of enforcing the rule

for the user for subsequent communication comprises the steps of enabling IPSec on \boldsymbol{a}

socket for the communication, and forcing the socket to be bound in exclusive mode.

30. (Withdrawn) The method of claim 26, wherein the end system has multiple

accounts thereon, wherein the step of receiving a connection request from a user includes

the step of receiving a connection request having an account ID hint included therewith, and

wherein the step of performing main mode (MM) authentication of the connection request

via Internet key exchange (IKE) protocol includes the step of performing MM authentication

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of the connection request via IKE based on an aggregate of users listed in a connection

policy for one of the accounts identified by the account ID hint.

31. (Withdrawn) The method of claim 30, wherein the step of performing quick

mode (QM) authentication of the communications via IKE based on a rule for the user in the

connection policy comprises the step of performing QM authentication based on a rule for

the user in the connection policy for one of the accounts identified by the account ID hint.

32. (Withdrawn) The method of claim 26, further comprising the step of

downloading the connection policy from a central administration.

33. (Withdrawn) The method of claim 26, further comprising the steps of

displaying an access control user interface, receiving input from a user of the end system,

using the input to define the rules of the connection policy.

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